



New Jersey Assessment of Skills and Knowledge 2007 Grade 6 MATHEMATICS REFERENCE SHEET

Use the information below to answer questions on the Mathematics section of the 2007 Grade Six Assessment of Skills and Knowledge (NJ ASK 6).

The sum of the measures of the interior angles of a triangle = 180°

Distance = rate \times time

Simple Interest Formula: $A = p + prt$

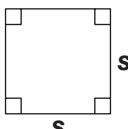
A = amount after t years; p = principal; r = annual interest rate; t = number of years

$$\pi \approx 3.14 \text{ or } \frac{22}{7}$$

Square

$$\text{Area} = s^2$$

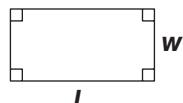
$$\text{Perimeter} = 4s$$



Rectangle

$$\text{Area} = lw$$

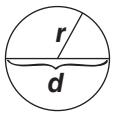
$$\text{Perimeter} = 2l + 2w$$



Circle

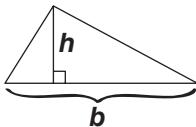
$$\text{Area} = \pi r^2$$

$$\text{Circumference} = 2\pi r \\ = \pi d$$



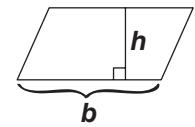
Triangle

$$\text{Area} = \frac{1}{2}bh$$



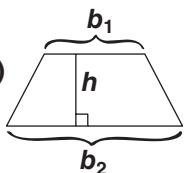
Parallelogram

$$\text{Area} = bh$$



Trapezoid

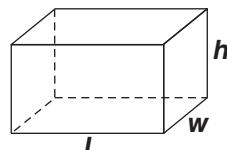
$$\text{Area} = \frac{1}{2}h(b_1 + b_2)$$



Rectangular Prism

$$\text{Volume} = lwh$$

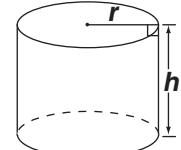
$$\text{Surface Area} = 2lw + 2wh + 2lh$$



Cylinder

$$\text{Volume} = \pi r^2 h$$

$$\text{Surface Area} = 2\pi rh + 2\pi r^2$$



USE THE FOLLOWING EQUIVALENTS FOR YOUR CALCULATIONS

60 seconds = 1 minute

60 minutes = 1 hour

24 hours = 1 day

7 days = 1 week

12 months = 1 year

365 days = 1 year

12 inches = 1 foot

3 feet = 1 yard

36 inches = 1 yard

5,280 feet = 1 mile

1,760 yards = 1 mile

10 millimeters = 1 centimeter

100 centimeters = 1 meter

10 decimeters = 1 meter

1000 meters = 1 kilometer

8 fluid ounces = 1 cup

2 cups = 1 pint

2 pints = 1 quart

4 quarts = 1 gallon

1000 milliliters (mL) = 1 liter (L)

16 ounces = 1 pound

2,000 pounds = 1 ton

1000 milligrams = 1 gram

100 centigrams = 1 gram

10 grams = 1 dekagram

1000 grams = 1 kilogram